

Title (en)

FUEL FLOW SPLITTER AND GAS TURBINE FUEL SYSTEM HEALTH MONITORING

Title (de)

Brennstoffdurchflussteiler und Gesundheitsüberwachung eines Brennstoffsystems einer Gasturbine

Title (fr)

Diviseur de débit de carburant et système de surveillance de la santé d'un système de carburant d'une turbine à gaz

Publication

EP 2889467 B1 20160928 (EN)

Application

EP 14198446 A 20141217

Priority

US 201361921898 P 20131230

Abstract (en)

[origin: EP2889467A1] A gas turbine health monitoring fuel system including a fuel splitter (408), a first (418) and second (430) fuel nozzle, a first (414) and second (426) fuel pump, and a common drive (436) coupled to the first and second fuel pumps. The first (414) and second (426) fuel pumps are downstream from the fuel splitter. The first fuel nozzle (418) is fluidly coupled to the first fuel pump (414) by a first fuel stream (410). The second fuel nozzle (430) is fluidly coupled to the second fuel pump (426) by a second fuel stream (424). The common drive (436) is configured to drive the first (414) and second (426) fuel pumps at a same speed. The controller system is configured to determine a first fuel pressure in the first fuel stream, determine a second fuel pressure in the second fuel stream, and identify a difference between the first and second fuel pressures.

IPC 8 full level

F02C 7/228 (2006.01); **F02C 7/236** (2006.01); **F02C 9/26** (2006.01)

CPC (source: EP US)

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